

Banks, Kendra

From: Poindexter, Gregory
Sent: Tuesday, May 16, 2006 11:04 AM
To: Banks, Kendra
Subject: FW: request for Abstracts.

-----Original Message-----

From: Delcotto, Gregory
Sent: Thursday, May 11, 2006 10:04 PM
To: Poindexter, Gregory
Subject: request for Abstracts.

Hey Greg,

I have a case, 10/520841, in which the Applicant has listed two abstracts:

1) Accession No. (3613386) October 23, 1991; E.C. Constable et al; Crossfire Beilstein (XP 002221616) Chem. Abste.

2) Accession No. (8321073, March 7, 2000; G. Lowe et al, Crossfire Beilstein (XP 002221615)

The abstracts are not in the case and if you are able to pull them, I can walk over and pick them up on Monday. Please feel free to call me at the number below.

Greg Del Cotto
Primary Examiner
Art Unit 1751
(571) 272-1312

E 3613386/BRN

```
=> e 8321073/brn
E1          1     8321071/BRN
E2          1     8321072/BRN
E3          1    --> 8321073/BRN
E4          1     8321074/BRN
E5          1     8321075/BRN
E6          1     8321076/BRN
E7          1     8321077/BRN
E8          1     8321078/BRN
E9          1     8321079/BRN
E10         1     8321080/BRN
E11         1     8321081/BRN
E12         1     8321082/BRN
```

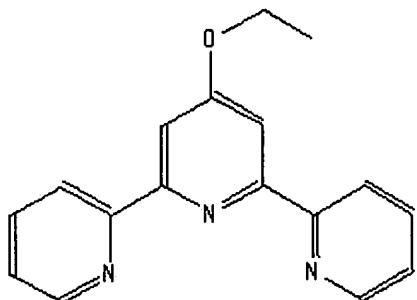
```
=> s e3
L14          1 8321073/BRN
```

```
=> s l14 and lowe g?/au
987 LOWE G?/AU
L15          1 L14 AND LOWE G?/AU
```

```
=> d l15 all
```

L15 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2006 BEILSTEIN MDL on STN

Beilstein Records (BRN) :	8321073
Chemical Name (CN) :	4'-ethoxy-2,2':6',2'''-terpyridine
Autonom Name (AUN) :	4'-ethoxy-<2,2';6',2'''>terpyridine
Molec. Formula (MF) :	C17 H15 N3 O
Molecular Weight (MW) :	277.32
Lawson Number (LN) :	30064, 298
Compound Type (CTYPE) :	heterocyclic
Constitution ID (CONSID) :	7066912
Tautomer ID (TAUTID) :	7839385
Entry Date (DED) :	2000/03/07
Update Date (DUPD) :	2000/03/07



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1

FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
DED	Entry Date	1
DUPD	Update Date	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

Melting Point:

Value	Ref.
(MP)	
(Cel)	
<hr/>	
85 - 86	1

Reference(s):

1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; BABS-6186508

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Coupling Nuclei (.NUI):	1H-1H
Solvents (.SOL):	CDCl3

Reference(s):

1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; BABS-6186508

Reaction:

RX

Reaction ID (.ID):	5212869
Reactant BRN (.RBRN):	<u>3613386</u> , <u>605262</u>
Reactant (.RCT):	4'-chloro-<2,2';6',2''>terpyridine, sodium ethoxide
Product BRN (.PBRN):	<u>8321073</u>
Product (.PRO):	4'-ethoxy-<2,2';6',2''>terpyridine
No. of React. Details (.NVAR):	1

Reaction Details:

RX

Reaction RID (.RID):	5212869.1
Reaction Classification (.CL):	Preparation
Solvent (.SOL):	ethanol
Reference(s):	
1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>,	

999 - 1006; BABS-6186508

Reaction:

RX

Reaction ID (.ID):	5192162
Reactant BRN (.RBRN):	<u>3613386, 1718733</u>
Reactant (.RCT):	4'-chloro-<2,2';6',2''>terpyridine, ethanol
Product BRN (.PBRN):	<u>8321073, 8318583</u>
Product (.PRO):	4'-ethoxy-<2,2';6',2''>terpyridine, 4'-methoxy-<2,2';6',2''>terpyridine
No. of React. Details (.NVAR):	1

Reaction Details:

RX

Reaction RID (.RID):	5192162.1
Reaction Classification (.CL):	Preparation
Reagent (.RGT):	FeCl ₂ *4H ₂ O, MeOH
Time (.TIM):	60 hour(s)
Other Conditions (.COND):	Heating
Reference(s):	
1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; <u>BABS-6186508</u>	

Reaction:

RX

Reaction ID (.ID):	5185621
Reactant BRN (.RBRN):	<u>3613386, 1098229</u>
Reactant (.RCT):	4'-chloro-<2,2';6',2''>terpyridine, methanol
Product BRN (.PBRN):	<u>8318583, 8321073</u>
Product (.PRO):	4'-methoxy-<2,2';6',2''>terpyridine, 4'-ethoxy-<2,2';6',2''>terpyridine
No. of React. Details (.NVAR):	1

Reaction Details:

RX

Reaction RID (.RID):	5185621.1
Reaction Classification (.CL):	Preparation
Reagent (.RGT):	FeCl ₂ *4H ₂ O, EtOH
Time (.TIM):	60 hour(s)
Other Conditions (.COND):	Heating
Reference(s):	
1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; <u>BABS-6186508</u>	

=>

Delotte 9439

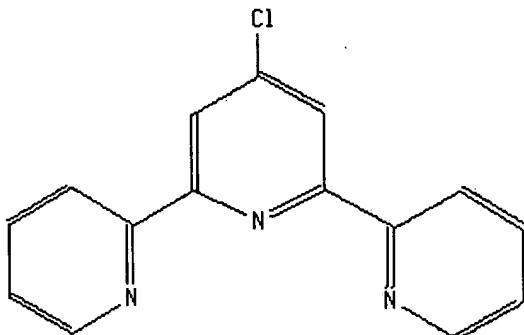
=> d query 112
L10 1 SEA FILE=BEILSTEIN 3613386/BRN
L12 1 SEA FILE=BEILSTEIN L10 AND CONSTABLE E?/AU

=> s 110 and constable e?/au (l)1991/py
 836 CONSTABLE E?/AU
 388825 1991/PY
 22 CONSTABLE E?/AU (L)1991/PY
 L13 0 L10 AND CONSTABLE E?/AU (L)1991/PY

=> d 112 all

L12 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2006 BEILSTEIN MDL on STN

Beilstein Records (BRN) :	3613386
Beilstein Pref. RN (BPR) :	<u>128143-89-5</u>
CAS Reg. No. (RN) :	<u>128143-89-5</u>
Chemical Name (CN) :	4'-chloro-2,2':6',2'''-terpyridine
Autonom Name (AUN) :	4'-chloro-<2,2';6',2'''>terpyridine
Molec. Formula (MF) :	C15 H10 Cl N3
Molecular Weight (MW) :	267.72
Lawson Number (LN) :	30032
Compound Type (CTYPE) :	heterocyclic
Constitution ID (CONSID) :	3231896
Tautomer ID (TAUTID) :	3459909
Beilstein Citation (BSO) :	6-26
Entry Date (DED) :	1991/10/23
Update Date (DUPD) :	2006/02/02



Field Availability:

Code	Name	Occurrence
<hr/>		
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
DED	Entry Date	1
DUPD	Update Date	1
FLU	Fluorescence	1

MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	2
UVS	UV and Visible Spectrum	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	76
RXREA	Substance is Reaction Reactant	75
RXPRO	Substance is Reaction Product	1

Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
149 - 152	ethanol	1

Reference(s):

1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN: JCCTBI(4), <1990>, 1405-1409; BABS-5512756

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Reference(s):	
1. Schubert, Ulrich S.; Eschbaumer, Christian; Hien, Oliver; Andres, Philip R., Tetrahedron Lett., CODEN: TELEAY, 42(28), <2001>, 4705 - 4708; <u>BABS-6287889</u>	

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDCl3
Reference(s):	
1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN: JCCTBI(4), <1990>, 1405-1409; <u>BABS-5512756</u>	

UV and Visible Spectrum:

Solvent	Absorption	Ext./Abs.	Ref.	Note
(.SOL)	Maxima	Coeff.		
	(.AM)	(.EAC)		
	(nm)			
		(I/MOL*CM)		
CH2Cl2	278.5	20892	1	1

Reference(s):

1. Mutai, Toshiki; Cheon, Jin-Dong; Arita, Shinpei; Araki, Koji, J.Chem.Soc.Perkin Trans.2, CODEN: JCSPGI(7), <2001>, 1045 - 1050; BABS-6306274

Notes(s):

1. Remark: 20 deg C

Fluorescence:

Descript ion (.KW)	Solvent (.SOL)	Temp. (.T) (Cel)	Ref.
Maxima	Solvent for Maxima: CH ₂ Cl ₂	20	1

Reference(s):

1. Mutai, Toshiki; Cheon, Jin-Dong; Arita, Shinpei; Araki, Koji, J.Chem.Soc.Perkin Trans.2, CODEN: JCSPGI(7), <2001>, 1045 - 1050; BABS-6306274

Reaction:

RX

Reaction ID (.ID): 2298527
 Reactant BRN (.RBRN): 3612982
 Reactant (.RCT): 1'H-<2,2';6',2''>terpyridin-4'-one
 Product BRN (.PBRN): 3613386
 Product (.PRO): 4'-chloro-<2,2';6',2''>terpyridine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 2298527.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 62 percent (BRN=3613386)
 Reagent (.RGT): PCl₅, POCl₃
 Time (.TIM): 12 hour(s)
 Other Conditions (.COND): Heating
 Reference(s):
 1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN: JCDTBI(4), <1990>, 1405-1409; BABS-5512756

Reaction:

RX

Reaction ID (.ID): 9966706
 Reactant BRN (.RBRN): 3613386, 505945
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 ethane-1,2-diol
 Product BRN (.PBRN): 10124689
 Product (.PRO): 1,2-bis(2,2':6',2''-terpyridin-4'-
 yloxy)ethane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9966706.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 54 percent (BRN=10124689)
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 28 hour(s)
 Temperature (.T): 70 Cel
 Reference(s):

1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; BABS-6503309

Reaction:

RX

Reaction ID (.ID):	9943308
Reactant BRN (.RBRN):	<u>1638281, 3613386</u>
Reactant (.RCT):	3,6,9,12,15-pentaoxa-heptadecane-1,17-diol, 4'-chloro-<2,2';6',2''>terpyridine
Product BRN (.PBRN):	10138916
Product (.PRO):	1,11-bis(2,2':6',2''-terpyridin-4'-yloxy)-3,6,9,12,15-pentaoxaheptadecane
No. of React. Details (.NVAR):	1

Reaction Details:

RX

Reaction RID (.RID):	9943308.1
Reaction Classification (.CL):	Preparation
Yield (.YDT):	70 percent (BRN=10138916)
Reagent (.RGT):	KOH
Solvent (.SOL):	dimethylsulfoxide
Time (.TIM):	25 hour(s)
Temperature (.T):	70 Cel
Reference(s):	
1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; <u>BABS-6503309</u>	

Reaction:

RX

Reaction ID (.ID):	9943243
Reactant BRN (.RBRN):	<u>1634320, 3613386</u>
Reactant (.RCT):	2,2'-(3-oxa-pentane-1,5-diyl)bis-ethanol, 4'-chloro-<2,2';6',2''>terpyridine
Product BRN (.PBRN):	10134778
Product (.PRO):	1,11-bis(2,2':6',2''-terpyridin-4'-yloxy)-3,6,9-trioxaundecane
No. of React. Details (.NVAR):	1

Reaction Details:

RX

Reaction RID (.RID):	9943243.1
Reaction Classification (.CL):	Preparation
Yield (.YDT):	89 percent (BRN=10134778)
Reagent (.RGT):	KOH
Solvent (.SOL):	dimethylsulfoxide
Time (.TIM):	42 hour(s)
Temperature (.T):	60 Cel
Reference(s):	
1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; <u>BABS-6503309</u>	

Reaction:

RX

Reaction ID (.ID):	9654600
Reactant BRN (.RBRN):	<u>337165, 3613386</u>
Reactant (.RCT):	N,N'-(3-aza-pentane-1,5-diyl)-bis-

Product BRN (.PBRN): phthalimide, 4'-chloro-<2,2';
 6',2''>terpyridine
 9825911
 Product (.PRO): C35H26N6O4
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9654600.1
 Reaction Classification (.CL): Preparation
 Temperature (.T): 180 Cel
 Reference(s):
 1. Ruloff, Robert; Koten, Gerard van; Merbach, Andre E., Chem. Commun.,
 CODEN: CHCOFS(7), <2004>, 842 - 843; BABS-6465357

Reaction:

RX

Reaction ID (.ID): 9648255
 Reactant BRN (.RBRN): 1901343, 3613386
 Reactant (.RCT): (1R)-trans-cyclohexane-1,2-diol,
 4'-chloro-<2,2';6',2''>terpyridine
 9823389
 Product BRN (.PBRN):
 Product (.PRO): (1R,2R)-trans-1,2-bis(2,2':6',2''-
 terpyridin-4'-yloxy)cyclohexane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9648255.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 12 percent (BRN=9823389)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 20 min
 Temperature (.T): 60 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 3 day(s)
 Temperature (.T): 60 Cel
 Reference(s):
 1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),
 <2004>, 1229 - 1238; BABS-6465413

Reaction:

RX

Reaction ID (.ID): 9647060
 Reactant BRN (.RBRN): 1811931, 3613386
 Reactant (.RCT): hexadecane-1,16-diol, 4'-chloro-<2,2';
 6',2''>terpyridine
 9831068
 Product BRN (.PBRN):
 Product (.PRO): 1,6-bis(2,2':6',2''-terpyridin-4'-
 yloxy)hexadecane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9647060.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 75 percent (BRN=9831068)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 20 min
 Temperature (.T): 60 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 24 hour(s)
 Temperature (.T): 60 Cel
 Reference(s):
 1. Andres, Philip R.; Schubert, Ulrich S., *Synthesis*, CODEN: SYNTBF(8),
 <2004>, 1229 - 1238; BABS-6465413

Reaction:

RX

Reaction ID (.ID): 9645782
 Reactant BRN (.RBRN): 1738606, 3613386
 Reactant (.RCT): decane-1,10-dithiol, 4'-chloro-<2,2';
 6',2'>terpyridine
 Product BRN (.PBRN): 9826908
 Product (.PRO): 1,10-bis(2,2':6',2'')-terpyridin-4'-
 ylsulfanyl)decane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9645782.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 46 percent (BRN=9826908)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 30 min
 Temperature (.T): 20 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 1 hour(s)
 Temperature (.T): 20 Cel
 Reference(s):
 1. Andres, Philip R.; Schubert, Ulrich S., *Synthesis*, CODEN: SYNTBF(8),
 <2004>, 1229 - 1238; BABS-6465413

Reaction:

RX

Reaction ID (.ID): 9645197
 Reactant BRN (.RBRN): 1732507, 3613386
 Reactant (.RCT): hexane-1,6-dithiol, 4'-chloro-<2,2';
 6',2'>terpyridine
 Product BRN (.PBRN): 9822942
 Product (.PRO): 1,6-bis(2,2':6',2'')-terpyridin-4'-
 ylsulfanyl)hexane

No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9645197.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 53 percent (BRN=9822942)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 30 min
 Temperature (.T): 70 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 4 hour(s)
 Temperature (.T): 70 Cel
 Reference(s):
 1. Andres, Philip R.; Schubert, Ulrich S., *Synthesis*, CODEN: SYNTBF(8),
 <2004>, 1229 - 1238; BABS-6465413

Reaction:

RX

Reaction ID (.ID): 9641089
 Reactant BRN (.RBRN): 1340579, 3613386
 Reactant (.RCT): (1S)-trans-cyclohexane-1,2-diol,
 4'-chloro-<2,2';6',2'>terpyridine
 Product BRN (.PBRN): 9823390
 Product (.PRO): (1S,2S)-trans-1,2-bis(2,2':6',2'')-
 terpyridin-4'-yloxy)cyclohexane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9641089.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 8 percent (BRN=9823390)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 20 min
 Temperature (.T): 60 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 3 day(s)
 Temperature (.T): 60 Cel
 Reference(s):
 1. Andres, Philip R.; Schubert, Ulrich S., *Synthesis*, CODEN: SYNTBF(8),
 <2004>, 1229 - 1238; BABS-6465413

Reaction:

RX

Reaction ID (.ID): 9603607
 Reactant BRN (.RBRN): 3613386, 605631
 Reactant (.RCT): 4'-chloro-<2,2';6',2'>terpyridine,

Product BRN (.PBRN): 9712882
 Product (.PRO): phenyl-<2,2';6',2''>terpyridin-4'-yl-amine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9603607.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 89 percent (BRN=9712882)
 Time (.TIM): 5 hour(s)
 Temperature (.T): 90 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9600311
 Reactant BRN (.RBRN): 3613386, 507051
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
3,5-dimethyl-aniline
 Product BRN (.PBRN): 9719033
 Product (.PRO): (3,5-dimethyl-phenyl)-<2,2';6',2''>terpyridin-4'-yl-amine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9600311.1
 Reaction Classification (.CL): Preparation
 Time (.TIM): 4 hour(s)
 Temperature (.T): 120 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9598139
 Reactant BRN (.RBRN): 3613386, 474706
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
4,4'-methanediyl-bis-aniline
 Product BRN (.PBRN): 9745503
 Product (.PRO): bis<4-(2,2':6',2''-terpyridine-4'-yl)aminophenyl>methane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9598139.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 91 percent (BRN=9745503)
 Time (.TIM): 8 hour(s)
 Temperature (.T): 200 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9598138
 Reactant BRN (.RBRN): 3613386, 474706
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 4,4'-methanediyl-bis-aniline
 Product BRN (.PBRN): 9731229
 Product (.PRO): <4-(4-amino-benzyl)-phenyl>-<2,2';6',2''>terpyridin-4'-yl-amine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9598138.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 93 percent (BRN=9731229)
 Time (.TIM): 7 hour(s)
 Temperature (.T): 200 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9597685
 Reactant BRN (.RBRN): 3613386, 471556
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 4-methoxy-aniline
 Product BRN (.PBRN): 9717165
 Product (.PRO): (4-methoxy-phenyl)-<2,2';6',2''>terpyridin-4'-yl-amine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9597685.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 52 percent (BRN=9717165)
 Time (.TIM): 5 hour(s)
 Temperature (.T): 170 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9591142
 Reactant BRN (.RBRN): 3613386, 2811314
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 tris-(4-amino-phenyl)-methane
 Product BRN (.PBRN): 9750658
 Product (.PRO): tris<4-(2,2':6',2''-terpyridin-4'-yl)aminophenyl>methane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9591142.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 62 percent (BRN=9750658)
 Time (.TIM): 8 hour(s)

Temperature (.T): 220 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9591051
 Reactant BRN (.RBRN): 3613386, 2772129
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 4,4',4'',4'''-methanetetrayl-tetra-aniline
9752390
 Product BRN (.PBRN):
 Product (.PRO): tetrakis<4-(2,2':6',2''-terpyridin-4'-yl)aminophenyl>methane
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9591051.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 68 percent (BRN=9752390)
 Time (.TIM): 8 hour(s)
 Temperature (.T): 220 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9589266
 Reactant BRN (.RBRN): 3613386, 2158463
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 9,9-bis-(4-amino-phenyl)-fluorene
9749036
 Product BRN (.PBRN):
 Product (.PRO): 9,9-bis<4-(2,2':6',2''-terpyridin-4'-yl)aminophenyl>fluorene
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9589266.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 91 percent (BRN=9749036)
 Time (.TIM): 8 hour(s)
 Temperature (.T): 200 Cel
 Reference(s):
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, *Synthesis*,
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

Reaction:

RX

Reaction ID (.ID): 9527218
 Reactant BRN (.RBRN): 3613386, 7648012
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,
 2-(2-<7-<2-(2-hydroxy-ethoxy)-ethoxy>-naphthalen-2-yloxy>-ethoxy)-ethanol
9683384
 Product BRN (.PBRN):
 Product (.PRO): C48H42N6O6
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9527218.1
 Reaction Classification (.CL): Preparation
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Reference(s):
 1. Chow, Hoi Shan; Constable, Edwin C.; Housecroft, Catherine E.;
 Neuburger, Markus, Dalton Trans., CODEN: DTARAF(24), <2003>, 4568 -
 4569; BABS-6429748

Reaction:

RX

Reaction ID (.ID): 9503155
 Reactant BRN (.RBRN): 969148, 3613386
 Reactant (.RCT): butan-1-ol, 4'-chloro-<2,2';
 6',2''>terpyridine
 Product BRN (.PBRN): 9566118
 Product (.PRO): 4'-butoxy-<2,2';6',2''>terpyridine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9503155.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 46 percent (BRN=9566118)
 Nr. of Stages (.SNR): 2
 Stage 1
 Reagent (.RGT): KOH
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 30 min
 Temperature (.T): 70 Cel
 Stage 2
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine
 Stage Reactant BRN (.SRBRN): 3613386
 Solvent (.SOL): dimethylsulfoxide
 Time (.TIM): 16 hour(s)
 Temperature (.T): 70 Cel
 Reference(s):
 1. Andres, Philip R.; Lunkwitz, Ralph; Pabst, Gunther R.; Boehn,
 Karlheinz; Wouters, Daan; Schmatloch, Stefan; Schubert, Ulrich S.,
 Eur.J.Org.Chem., CODEN: EJOCFK(19), <2003>, 3769 - 3776; BABS-6418201

Reaction:

RX

Reaction ID (.ID): 9457780
 Reactant BRN (.RBRN): 2050815, 3613386
 Reactant (.RCT): (1R,2R)-1,2-diphenyl-ethane-1,2-diol,
 4'-chloro-<2,2';6',2''>terpyridine
 Product BRN (.PBRN): 9580976
 Product (.PRO): 4'-<(1,2-diphenylvinyl)oxy>-2,2':6',2''-
 terpyridine
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 9457780.1
 Reaction Classification (.CL): Multistage
 Yield (.YDT): 15 percent (BRN=9580976)
 Nr. of Stages (.SNR): 2

Stage 1

Reagent (.RGT) : KOH
Solvent (.SOL) : dimethylsulfoxide
Time (.TIM) : 20 min
Temperature (.T) : 40 Cel

Stage 2

Stage reactant (.SRCT) : 4'-chloro-[2,2',6',2'']terpyridine

Stage Reactant BRN (.SRBRN) : 3613386

Solvent (.SOL) : dimethylsulfoxide
Time (.TIM) : 4 hour(s)
Temperature (.T) : 40 Cel

Reference(s) :

1. Andres, Philip R.; Lunkwitz, Ralph; Pabst, Gunther R.; Boehn, Karlheinz; Wouters, Daan; Schmatloch, Stefan; Schubert, Ulrich S., Eur.J.Org.Chem., CODEN: EJOCFK(19), <2003>, 3769 - 3776; BABS-6418201

Only first 20 Reaction Documents are displayed. Use DIS FRX to display all Documents. Use DIS FRXPRO or FRXREA to display all Documents where Title Substance is Product or Reactant.

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